## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

- (Currently Amended) A Y<sub>2</sub>O<sub>3</sub> spray-coated member characterized by covering a surface of a substrate with a Y<sub>2</sub>O<sub>3</sub> black spray coating, wherein the Y<sub>2</sub>O<sub>3</sub> black spray coating is generated by a laser or electron beam process.
- (Original) A Y<sub>2</sub>O<sub>3</sub> spray-coated member according to claim 1, wherein an
  undercoat made of a metal coating is disposed beneath a Y<sub>2</sub>O<sub>3</sub> black spray coating.
- 3. (Original) A  $Y_2O_3$  spray-coated member according to claim 2, wherein a middle layer is disposed between an undercoat made of a metal coating and a  $Y_2O_3$  black spray coating as a top coat.
- 4. (Previously Presented) A Y<sub>2</sub>O<sub>3</sub> spray-coated member according to claim 2, wherein the undercoat is a metal coating made of at least one metal or alloy selected from Ni and its alloy, W and its alloy, Mo and its alloy, Ti and its alloy, Al and its alloy, and Mg alloy at a thickness of 50-500 um.

 (Original) A Y<sub>2</sub>O<sub>3</sub> spray-coated member according to claim 3, wherein the middle layer is made of a coating of Al<sub>2</sub>O<sub>3</sub>, a double oxide of Al<sub>2</sub>O<sub>3</sub> and Y<sub>2</sub>O<sub>3</sub>, a solid solution or a mixture thereof.

- 6. (Previously Presented) A  $Y_2O_3$  spray-coated member according to claim 1, wherein the  $Y_2O_3$  black spray coating is obtained by forming a  $Y_2O_3$  re-molten layer having a thickness of less than 30  $\mu$ m and a blackened  $Y_2O_3$  layer on a surface of the  $Y_2O_3$  spray coating.
- 7. (Previously Presented) A  $Y_2O_3$  spray-coated member according to claim 1, wherein the  $Y_2O_3$  black spray coating is constituted with a layer in which  $Y_2O_3$  particles blackened on an outer peripheral portion or an inside of  $Y_2O_3$  particle constituting the spray coating are deposited to a thickness of about 50-2000  $\mu$ m.
- 8. (Original) A method of producing a  $Y_2O_3$  spray-coated member, characterized in that a white  $Y_2O_3$  powdery material is plasma-sprayed directly on a surface of a substrate or on an undercoat applied onto the surface of the substrate in an inert gas atmosphere substantially containing no oxygen to form a  $Y_2O_3$  black spray coating.
- 9. (Original) A method of producing a  $Y_2O_3$  spray-coating member, characterized in that a white  $Y_2O_3$  powdery material is sprayed on a surface of a substrate to form a  $Y_2O_3$  white spray coating and then a laser beam is irradiated to form a blackened  $Y_2O_3$  layer on a surface of the  $Y_2O_3$  white spray coating.

10. (Original) A method of producing a Y<sub>2</sub>O<sub>3</sub> spray-coated member, characterized in that a white Y<sub>2</sub>O<sub>3</sub> powdery material is sprayed directly on a surface of a substrate or on an undercoat applied onto the surface of the substrate to form a Y<sub>2</sub>O<sub>3</sub> white spray coating, and then an electron beam is irradiated under a low pressure or in an inert gas atmosphere under a low pressure to form a blackened Y<sub>2</sub>O<sub>3</sub> layer on the surface of the Y<sub>2</sub>O<sub>3</sub> white spray coating.

- 11. (Previously Presented) A method of producing a  $Y_2O_3$  spray-coated member according to claim 8, wherein the undercoat made of a metal coating is disposed beneath the  $Y_2O_3$  black spray coating.
- 12. (Previously Presented) A method of producing a  $Y_2O_3$  spray-coated member according to claim 8, wherein a middle layer is disposed between the undercoat made of a metal coating and the  $Y_2O_3$  black spray coating formed as a top coat.
- 13. (Original) A method of producing a  $Y_2O_3$  spray-coated member according to claim 8, wherein the inert gas atmosphere is an atmosphere under a low pressure of 50-600 hPa.
- $14. \ (Original) \quad A \ method of producing \ a \ Y_2O_3 \ spray-coated \ member \ according \ to$  claim 8, wherein the inert gas atmosphere includes an environment of a heat source for an

atmosphere plasma spraying surrounded with a gas such as Ar,  $N_2$  or the like so as not to penetrate air into the heat source.

- 15. (Original) A method of producing a Y<sub>2</sub>O<sub>3</sub> spray-coated member according to claim 12, wherein the middle layer is made of a coating of Al<sub>2</sub>O<sub>3</sub>, a double oxide of Al<sub>2</sub>O<sub>3</sub> and Y<sub>2</sub>O<sub>3</sub>, a solid solution or a mixture thereof.
- 16. (Previously Presented) A method of producing a  $Y_2O_3$  spray-coated member according to claim 8, wherein the  $Y_2O_3$  black spray coating is obtained by forming a  $Y_2O_3$  re-molten layer having a thickness of less than 30  $\mu$ m and a blackened  $Y_2O_3$  layer on a surface of the  $Y_2O_3$  spray coating.
- 17. (Preciously Presented) A method of producing a Y<sub>2</sub>O<sub>3</sub> spray-coated member according to claim 8, wherein the Y<sub>2</sub>O<sub>3</sub> black spray coating is constituted with a layer in which Y<sub>2</sub>O<sub>3</sub> particles blackened on an outer peripheral portion or an inside of Y<sub>2</sub>O<sub>3</sub> particle constituting the spray coating are deposited to a thickness of about 50-2000 µm.

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